

56. The isolated polynucleotide of claim 45 wherein the nucleic acid sequence is shown as nucleotides 90 to 1712 in SEQ ID NO:1.

57. The isolated polynucleotide of claim 42 wherein the nucleic acid sequence is (c).

58. The isolated polynucleotide of claim 42 wherein the nucleic acid sequence encodes at least 50 contiguous amino acid residues of SEQ ID NO:2.

59. The isolated polynucleotide of claim 42 wherein said polynucleotide is DNA and further wherein said nucleic acid sequence is (a), (b) or (c).

60. A recombinant vector comprising the DNA of claim 49.

61. A recombinant host cell comprising the DNA of claim 49.

62. A polynucleotide comprising the DNA of claim 49 linked to a heterologous regulatory sequence which controls gene expression.

63. A process for producing a polypeptide comprising expressing from the host cell of claim 61 the encoded polypeptide and recovering said polypeptide.

64. The isolated polynucleotide of claim 42 consisting of a nucleic acid sequence selected from the group consisting of:

- a nucleic acid sequence encoding the polypeptide set forth as amino acid residues 1 to 541 of SEQ ID NO:2;
- a nucleic acid sequence encoding the polypeptide set forth as amino acid residues 2 to 541 of SEQ ID NO:2;
- a nucleic acid sequence encoding at least 30 contiguous amino acid residues of SEQ ID NO:2; and
- a nucleic acid sequence complementary to the nucleic acid sequence of (a), (b) or (c).

65. An isolated polynucleotide comprising the polynucleotide of claim 54 fused to a heterologous polynucleotide.

66. An isolated polynucleotide comprising a nucleic acid sequence selected from the group consisting of:

- a nucleic acid sequence encoding the polypeptide encoded by the human cDNA contained in ATCC Deposit No. 97186;
- a nucleic acid sequence encoding the polypeptide encoded by the human cDNA contained in ATCC Deposit No. 97186, excepting the N-terminal methionine;
- a nucleic acid sequence encoding at least 30 contiguous amino acid residues of the polypeptide encoded by the human cDNA contained in ATCC Deposit No. 97186; and

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(d) a nucleic acid sequence complementary to the nucleic acid sequence of (a), (b) or (c).

54. The isolated polynucleotide of claim 56 wherein said nucleic acid sequence is (a). 15

58. The isolated polynucleotide of claim 56 wherein said nucleic acid sequence is (b). 15

59. The isolated polynucleotide of claim 56 wherein said nucleic acid sequence is (c). 15

60. The isolated polynucleotide of claim 56 wherein said nucleic acid sequence encodes at least 50 contiguous amino acid residues of the polypeptide encoded by the human cDNA contained in ATCC Deposit No. 97186.

61. The isolated polynucleotide of claim 56 wherein said polynucleotide is DNA and further wherein said nucleic acid sequence is (a), (b) or (c). 15

62. A recombinant vector comprising the DNA of claim 61. 60

63. A recombinant host cell comprising the DNA of claim 61.

64. The isolated DNA of claim 61 linked to regulatory sequence which controls gene expression. 20

65. A process for producing a polypeptide comprising expressing from the host cell of claim 63 the encoded polypeptide and recovering said polypeptide. 22

66. The isolated polynucleotide of claim 56 consisting of a nucleic acid sequence selected from the group consisting of:

- (a) a nucleic acid sequence encoding the polypeptide encoded by the human cDNA contained in ATCC Deposit No. 97186;
- (b) a nucleic acid sequence encoding the polypeptide encoded by the human cDNA contained in ATCC Deposit No. 97186, excepting the N-terminal methionine;
- (c) a nucleic acid sequence encoding at least 30 contiguous amino acid residues of the polypeptide encoded by the human cDNA contained in ATCC Deposit No. 97186; and
- (d) a nucleic acid sequence complementary to the nucleic acid sequence of (a), (b) or (c).

67. An isolated polynucleotide comprising the polynucleotide of claim 65 fused to a heterologous polynucleotide. -- 22

#### Remarks

Claims 21-41 have been canceled herein and replaced with new claims 42-67. Claims 1-20 were canceled in a prior amendment. Accordingly, claims 42-67 will be pending following entry of the present amendment.